

## ABSTRACT OF THE DISCLOSURE

To provide an image processing system and the like which can more exactly correct the distortion in an image by reducing the influence of color in an area onto which  
5 the image is projected, a projector is provided with a correction section which corrects image signals to adjust a distortion of an image; an image projection section which projects an image based on the image signals; a sensing section which senses the projected image to generate sensing information; a luminance-distribution analyzing section which generates coordinate information indicating a peak position which is the  
10 brightest position in the sensed projected image, based on the total luminance value for each pixel line forming the sensed projected image based on the sensing information; and a correction-amount deriving section which determines the distortion in the projected image and derives the amount of correction for the correcting section, based on the coordinate information.